SERIAL NO. 3215

ONKYO SERVICE MANUAL

FULLY AUTOMATIC TURNTABLE
MODEL CP-1037F

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PARTS NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

SPECIFICATIONS

Type:	2-speed fully automatic turntable
Turntable Platter:	30 cm (12") aluminum diecast
Motor:	Electronic servo DC motor, belt drive
Speeds:	33-1/3 rpm, 45 rpm
Wow & Flutter:	0.05% (WRMS)
Signal-to-Noise Ratio:	67 dB (DIN B)
Tonearm:	Lightweight straight-line static balanced pipe tonearm with detachable headshell (ADC type connector) and counterweight with direct tracking force read out.
Suitable Cartridge Weight:	5–9 grams
Adjustable Range:	3 grams
Maximum Length:	270 mm
Effective Arm Length:	213 mm
Overhang:	14 mm
Maximum Tracking Error:	+3 degrees, −1.0 degrees (offset angle 21 degrees)
Cartridge:	
Type:	Induced magnet OC-66I
Frequency Response:	20 Hz – 20,000 Hz
Recommended Load Impedance:	47 kohms
Recommended Trackig Force:	2 grams
Output Voltage:	2.5mV
Replacement Stylus:	DN66ST
Power Supply:	AC 120V, 60 Hz
Dimensions(W×H×D):	418mm×372mm×130mm 16-1/2" × 14-1/2" × 5-1/2"
Weight:	3.5 kg (7.7 lbs.)

Optional Recommended Headshell: SH-21E

Due to further product improvements, specifications are subject to change without ontice.

ONKYO®
AUDIO COMPONENTS

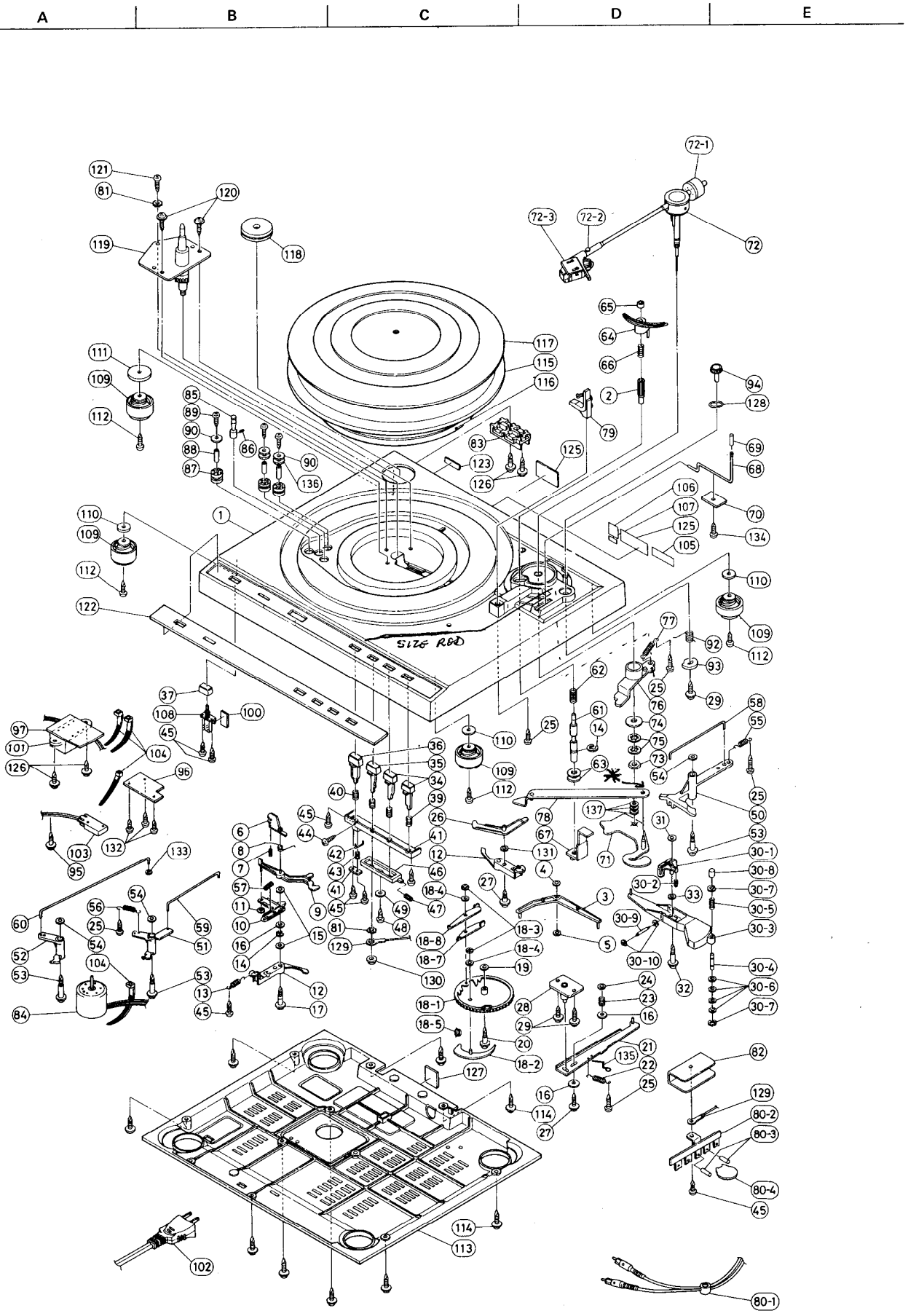
PARTS LIST

REF. NO.	PARTS NO.	DESCRIPTION
1	28110347	Cabinet
2	24504325	Elevation base
3	24504334	Lever (Switch)
4	87613012	Washer W3x12F
5	24506070	CS-3, CS Ring
6	24500330	Lever (Clutch)
7	24503027	Spring (I.F.C.)
8	24506478	Spring (Clutch lever)
9	24503079	Lever (SW) 2
10	24506484	Lever (Start)
11	24506482	Stop ring CSTW-2.4
12	24506481	Lever (Repeat)
13	24503053	Spring (Start lever)
14	893030	E-3, Circlip
15	24506483	Washer FW4. 7x12x0.3
16	24506480	Washer FW4. 7x12x0.5
17	24506607	Special screw
18	24503127	Main gear AS
18-1	24503128	Main gear
18-2	24504395	Lever (Selector)
18-3	24506070	Stop ring CSTW-12
18-5	24501012-1	Spring
18-7	24506079-1	Clutch
18-8	24500405-1	Clutch Guide
19	87615010	Washer FW5x10x0.5
20	24506612	Special screw
21	24500301	Selector arm AS
22	24503054	Spring (Select arm)
23	24506486	Spring (Protect)
24	87613008	FW 3.2x8x0.5, Washer
25	833130125	Tapping screw FMT3+12
26	27267439	Guider (Selector)
27	24506624	Special screw W/washer
28	24506615	Plate
29	831130082	Tapping screw 3STW+8BQ
30-1	24506490	Turn base
30-10	893020	E Washer 2
30-2	24506491	Spring
30-3	24506492-1	Turn plate
30-4	24506493	Friction shaft
30-5	24506494	Spring (Friction)
30-6	24506495	Fiber washer 4.7x10x0.5
30-7	893030	E Washer 3
30-8	24500516	Friction rubber
30-9	24501019	Turn plate shaft
31	87614010	Washer W4x10F
32	24506616	Special screw
33	8761601203	Washer FW6.2x12x.3
34	28322299	Button AS (Start)
35	28322300	Button AS (Repeat)
36	28322301	Button AS (R.S.)
37	28320489-1	Button
39	27180285	Spring (Button) 6.5
40	27180286	Spring (Button) 11.5

REF NO.	PARTS NO.	DESCRIPTION
42	24503125-2	Spring (R.S.)
43	24503124	Spring
44	833126069	Pan-head screw
45	833130088	Tap-tight screw 3TTP+8B
46	24504394	Plate (Repeat)
47	24503126	Spring
48	833130168	Tap-tight screw 3TTP+16B
49	8761301208	FW 3x12x0.8, Washer
50	24506498-1	Start cam
51	24506605	RS Cam
52	24506606	RS Cam
53	24506523	Special screw
54	87513008	Washer W3x8F
55	24500771	Spring (Strat lever)
56	24500771-2	Spring
57	24506519	Spring (Actuating)
58	27260199	Selector rod (Start)
59	24506609	Selector rod (Start)
60	24506610	Selector rod (Repeat)
61	27260200	Elevation shaft
62	24500774	Spring (Elevation)
63	800519	Nylon washer 4.7x8x.3
64	24506504	Elevation plate
65	24506275	EL Nut
66	24503075	Spring (Cam)
67	24506505	Lifter arm
68	24504333	Lever (Cue)
69	24506399	Knob (Lifter lever)
70	27141034	Plate
71	27141035	Actuating arm AS 2
72	24501552	Tone arm ass'y
72-1	24501553	Counter weight
72-2	24501321	Screw, Tone arm
72-3	24501354	Head shell
72-4	242936	OC-66I Cartridge
72-5	242968	DN-66ST Stylus
74	8761102210	FW 10x22x1, Washer
75	891100	CS-10, CS Crip
76	27130410	Selector
77	24500771-1	Spring
78	24506511-1	Actuating arm
79	24506600	Arm rest AS
80	24505161	Lug AS 5P
80-1	24505162	Shield wire AS
80-2	24506701	Full-auto mechanism
80-3		Tube
80-4	345024724	4700PF 50V, Ceramic
82	24506032	Shield plate
83	24506517	Cord holder
84	24502152	Phono motor
85	24502115	Motor pulley
86	801161	Screw FT2-3
87	24502060	Cushion rubber
88	24506190	Pipe

REF NO.	PARTS NO.	DESCRIPTION
89	82112612	Pan-head screw FM2.6+12
92	27180287	Spring (I.F.C.)
93	27185018	Cam (I.F.C.)
94	24504326-1	I.F.C. AS
95	800523	Tapping screw/W washer
96	24505164	Speed control P.C board
	24509230	10kVR (VR101)
	24509229	5kVR (VR102)
97	24505165	P.C.B.
101	230448	Power transformer
102	24505076	AC cord
103	24503023	Micro switch
104	260208	Binder
105		Label
106		Label
107		Label
108	24503129	Switch, Speed selector
109	24509351A	Insulator AS
110	800145	Special washer T0.8
111	24509196	Plate
112	801275	Special P-tight screw
113	27170086	Bottom board
114	831130122	Tapping screw 3STW+12BQ
115	24502153	Platter
116	242129B	Drive belt
117	24509323	Platter mat
118	292093	45 RPM Adapter
119	24502151	Platter shaft bearing
120	833130102	Tapping screw TPT3+10
121	82113016	Pan-head screw 3P+16FN
122	27262349	Front panel
123	29360404	Serial number sheet
125	29360798	Spec-label
126	833130162	Pan-head screw FM3+16
127	24506623	Gard
128	870071	Wave washer WW-6
129	24505163	Lug
130	800520	Nut/W washer
133	891020	Stop ring E-2
135	27180288	Holder (Lever)
136	800521	Fiber washer 4.7x13
137	800522	Washer FW5.2x12x1

EXPLODED VIEW



SERVICE PROCEDURES

Instruction resistance measurement

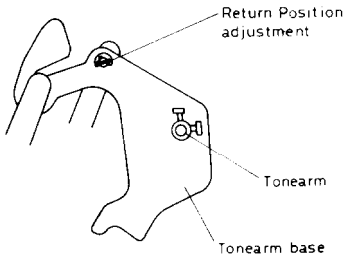
Connect the insulating-resistance tester between the plug of power supply cord and chassis.

Specifications: G/W models 500 V more than 10 MΩ

ADJUSTMENT PROCEDURES

1. Auto-return position

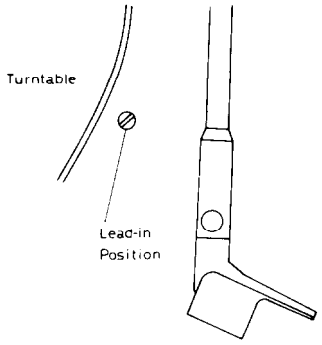
Adjust the return position by the eccentric pin attached by the tonearm base. To adjust the return position for faster, turn the eccentric pin clockwise. To adjust the return position for later, turn the eccentric pin counter-clockwise.



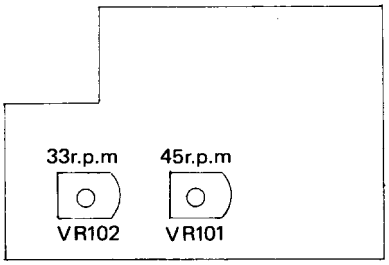
2. Lead-in position

Remove the rubber cap. Press the record size selector to 30cm position and the speed selector to 45 r.p.m.

To adjust lead-in position for faster (outside), turn the eccentric pin clockwise. To adjust the lead-in position for later (inside), turn the eccentric pin counter-clockwise.

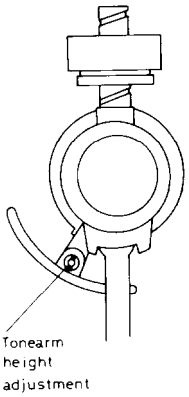


3. Speed control

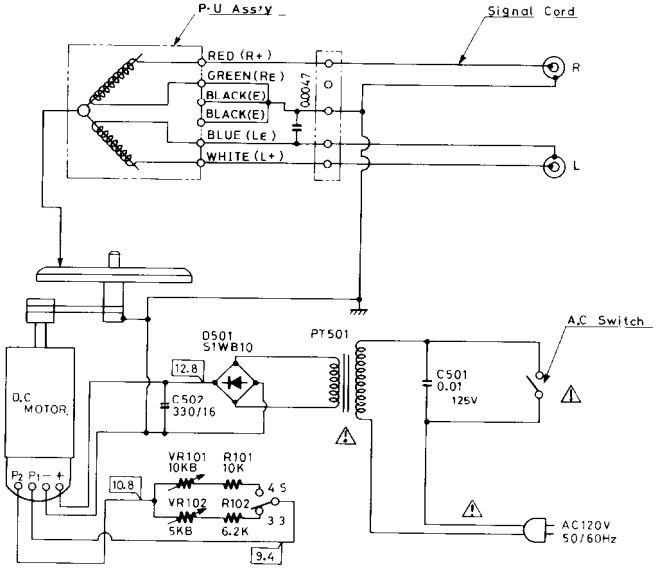


4. Tonearm height

1) Press the record size selector to 17cm position and the power switch to the ON position.
2) Press the play button.
3) As soon as the tonearm comes over the turntable platter, press the power switch to the off position.
4) Adjust the screw on the lifter plate for 12±1mm height between the stylus tip and the turntable platter mat.
   Note: To adjust the height for lower, turn the screw clockwise. To adjust the height for highter, turn the screw counter-clockwise.

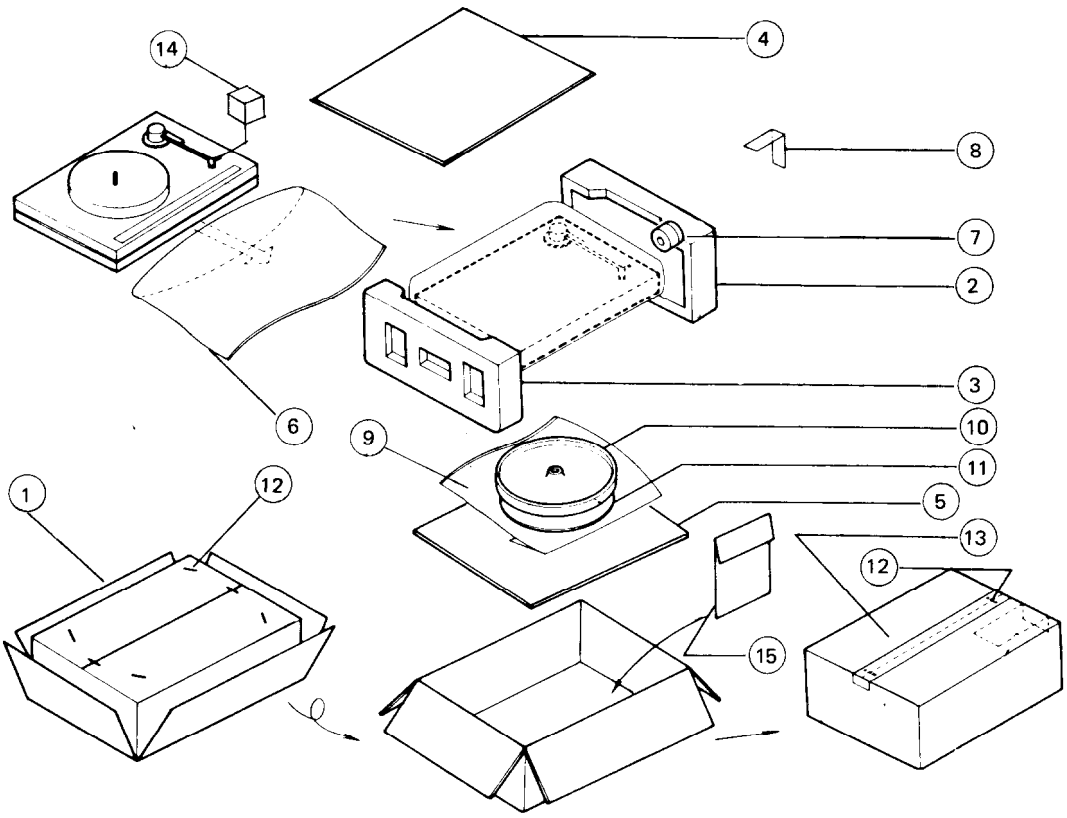


CONNECTION DIAGRAM



NOTE
1. ALL RESISTORS ARE IN OHMS, 1/4 WATT UNLESS OTHERWISE NOTED.
2. ALL CAPACITOR ARE IN μF, 50WV UNLESS OTHERWISE NOTED.
3. ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN μF/WV.
4. VOLTAGE IS MEASURED WITH V.T.V.M. WHEN TONEARM IS IN REST POSITION.(C_J)
5. THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY.
6. REPLACE ONLY WITH PART NUMBER SPECIFIED.
   CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVMENT.

PACKING VIEW



REF. NO.	PART NO.	DESCRIPTION
1	29051159	Master carton box
2	29090752	Pad(R)
3	29090753	Pad(L)
4	29095250	Pad Sheet
5	29095250	Pad Sheet
6	29095012	800 X 500, Protection sheet
7	24501553	Counter weight
8	260013	P. P Tape
9	29100046	370 X 470, Poly bag
10	24502153	Turntable platter
11	24509323	T. T Sheet
12	282301	Sealing hook
13	260012	Damplon tape
14	29091052	Pad(PU)
15	Accessary bag complete	
	29340900	Instruction manual
	29365006-7	Warranty card(Only USA model)
	29358002C	Sarvice station list(Only USA model)
	292049A	45rpm Adaptor

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NS507 Printed in Japan